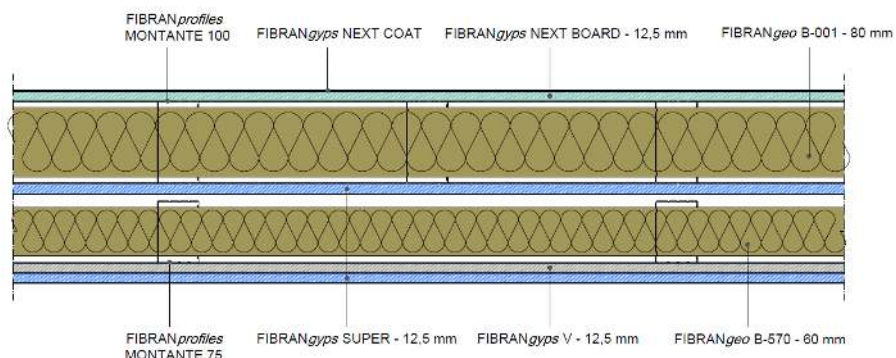


External partition FIBRAN EW 270/100+75 P mw

External partition th. 270 mm



COMPONENTS – external side

Plasterboards

1 layer of an innovate board **FIBRANGyeps NEXT BOARD** with high resistance to moisture and water, thickness **12,5 mm**, CE marked– **type GM-H1-R** according to EN 15283-1, tapered edge (BA), fire reaction **A1** according to EN 13501-1, weight **10 kg/m²**, water vapor resistance factor $\mu=10$, thermal conductivity $\lambda=0,225$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to UNI EN 12524. Start profile FIBRANGyeps NEXT BASE PROFILE fixed at 30 mm from the floor

1 layer in cavity of **FIBRANGyeps SUPER**, thickness **12,5 mm**, CE marked– **type D, I, F, H1, R** according to EN 520, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1, d0** according to EN 13501-1, controlled density more than **1000 kg/m³**, enhanced surface hardness, improved core adhesion at high temperature, reduced water absorption rate (total <5% ; surface **180 g/m²**), higher strength (flexural breaking load > **725 N**), weight **12,7 kg/m²**, water vapor resistance factor $\mu=10$, thermal conductivity $\lambda=0,25$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to EN 10456

Metal frame thickness ≥ 0.8 mm conform to EN 14195

Channels **FIBRANprofiles GUIDA 100**, increased wing 80 mm, mechanically fixed to the floor and ceiling using fixing anchors at a maximum spacing of 500 mm;

Studs **FIBRANprofiles MONTANTE 100**, max axial spacing every 300 mm, slotted to allow passage of the installations

Insulation board in cavity

FIBRANgeo B-001, biosoluble stone wool board, density **100 kg/m³**, thickness **80 mm**, fire reaction A1 according to EN 13501-1, thermal conductivity 10°C $\lambda_D = 0,033$ W/m K according to EN 12667 and EN 12939, water vapour diffusion resistance factor $\mu = 1$ according to EN 12086, specific heat capacity $c_p=1,03$ kJ / kg K according to EN 10456

Screws

Self-drilling screws **FIBRANGyeps NEXT SCREW 3,5 x 25 mm** with resistance in salt spray test not less than 500 hours, fixed max 200 mm;

Self-tapping screws **FIBRANGyeps SUPER SCREW 3,9 x 23 mm** fixed max 200 mm each

External finishing

The joints must be treated with **FIBRANGyeps NEXT COAT** plaster and fiberglass alkali resistant tape **FIBRANGyeps TAPE**. The finishing cycle is composed by reinforcing mesh **FIBRANGyeps NEXT MESH** **160 g/m²**, with overlaps of 10 cm, embedded in a first layer of smoother **FIBRANGyeps NEXT COAT** - based cement and special additives, which gives the compensated shrinkage, adhesion and tensile strength, posed with a notched trowel; after at least 24 h, application of a second layer of the of **FIBRANGyeps NEXT COAT** to obtain a total thickness of not less than 5 mm. After aging for at least 14 days; breathable protective finish with anti-mold-algae for external, fine-grained or coarse, elastic and waterproof. All cycles shaving and finish will still always follow the specifications of each manufacturer

External partition FIBRAN EW 270/100+75 P mw

External partition th. 270 mm

COMPONENTS – internal side

Plasterboards

1 layer of **FIBRANGyps V**, thickness **12,5 mm**, coated on the rear face with an aluminum foil as vapor barrier, CE marked according to EN 14190, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1, d0** according to EN 13501-1, weight 9,2 kg/m², water vapor resistance factor $\mu=10$ for plasterboard, $\mu=850000$ for aluminum foil, thermal conductivity $\lambda=0,25$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to EN 10456

1 layer in cavity of **FIBRANGyps SUPER**, thickness **12,5 mm**, CE marked– **type D, I, F, H1, R** according to EN 520, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1, d0** according to EN 13501-1, controlled density more than 1000 kg/m³, enhanced surface hardness, improved core adhesion at high temperature, reduced water absorption rate (total <5% ; surface 180 g/m²), higher strength (flexural breaking load > 725 N), weight 12,7 kg/m², water vapor resistance factor $\mu=10$, thermal conductivity $\lambda=0,25$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to EN 10456

Metal frame thickness 0,6 mm conform to EN 14195

Channels **FIBRANprofiles GUIDA 75** mechanically fixed to the floor and ceiling using fixing anchors at a maximum spacing of 500 mm;

Studs **FIBRANprofiles MONTANTE 75**, max axial spacing every 600 mm, slotted to allow passage of the installations

Insulation board in cavity

FIBRANgeo B-570, biosoluble stone wool board, density **75 kg/m³**, thickness **60 mm**, fire reaction A1 according to EN 13501-1, thermal conductivity 10°C $\lambda_p = 0,033$ W/m K according to EN 12667 and EN 12939, water vapour diffusion resistance factor $\mu= 1$ according to EN 12086, specific heat capacity $c_p=1,03$ kJ / kg K according to EN 10456

Screws

Self-tapping screws **FIBRANGyps SCREW 3,5 x 25 mm** with resistance in salt spray test not less than 72 hours, fixed max 300 mm;

Self-tapping screws **FIBRANGyps SUPER SCREW 3,9 x 38 mm** fixed max 300 mm each

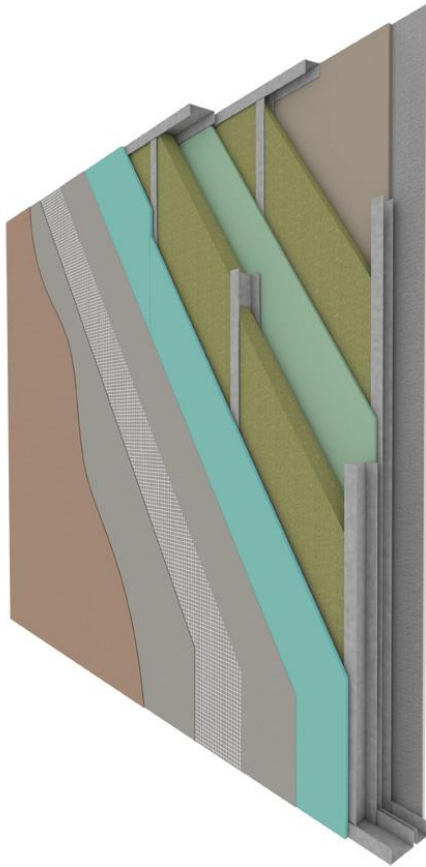
Adhesive tape and joint filler

Closed cell polyethylene foam adhesive tape **FIBRANGyps** to be applied on the entire perimeter of the metal structure, to eliminate the possible acoustic bridges due to the transmission of noise through the building structures.

Treatment of the joints between plasterboards and head of screws with **FIBRANGyps JF**, CE marked 3B according to EN 13963, and reinforcing tape **FIBRANGyps TAPE** according to the level quality Q2 (Eurogypsum)

External partition FIBRAN EW 270/100+75P mw

Technical features



Acoustics

Rw = 67 dB – test report Istituto Giordano n° 313376

Thermal Insulation

U = 0,2 W/m²K – calculated with software

Mechanical performance

Internal side

FIBRANprofiles channels and studs DIN 75 mm, max spacing 600 mm, thickness 6/10 mm conform to EN 14195.

External side

FIBRANprofiles channels and studs DIN 100 mm, increased wing 80 mm, max spacing 300 mm, thickness 8/10 mm conform to EN 14195.

Profiles must be designed according to local regulation and specific application.

In case of walls longer than 15 meters, an expansion joint must be made every 10 meters or where structural joints are

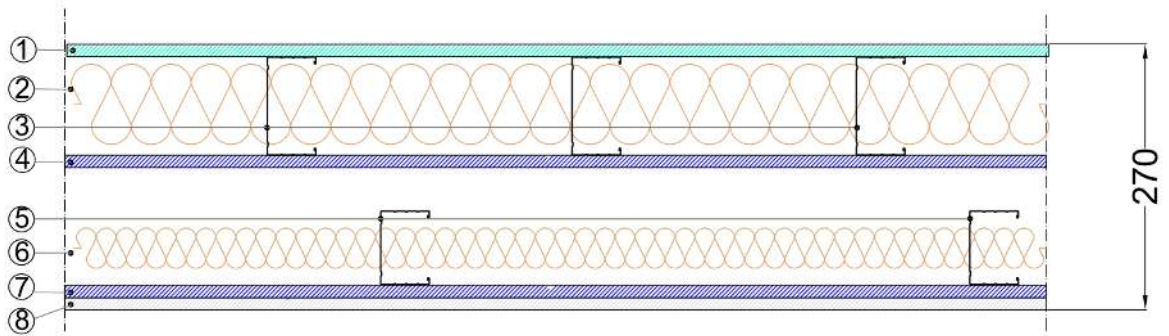
Finishing

According to quality level required (Eurogypsum). Use FIBRANGyps JF READY MIX for level Q4

Sustainability

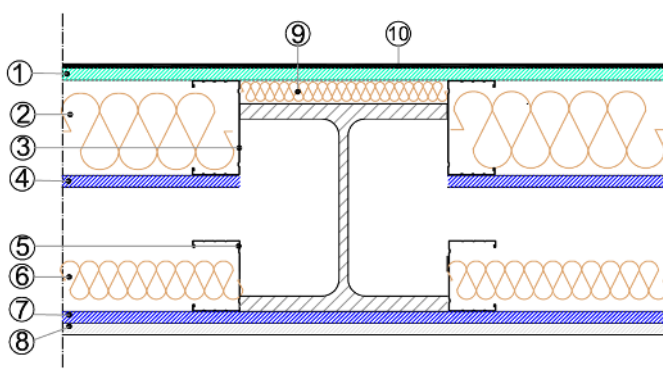
FIBRANGyps plasterboards are classified A+, the best one according to EN ISO 16000-09, for the emission of formaldehyde, acetaldehyde and other substances.

External partition FIBRAN EW 270/100+75P mw Construction details



1. FIBRANGyps NEXT BOARD	5. FIBRANprofiles MONTANTE 75
2. FIBRANgeo B-001	6. FIBRANgeo B-570
3. FIBRANprofiles MONTANTE 100	7. FIBRANGyps SUPER 13
4. FIBRANGyps SUPER 13	8. FIBRANGyps V 13

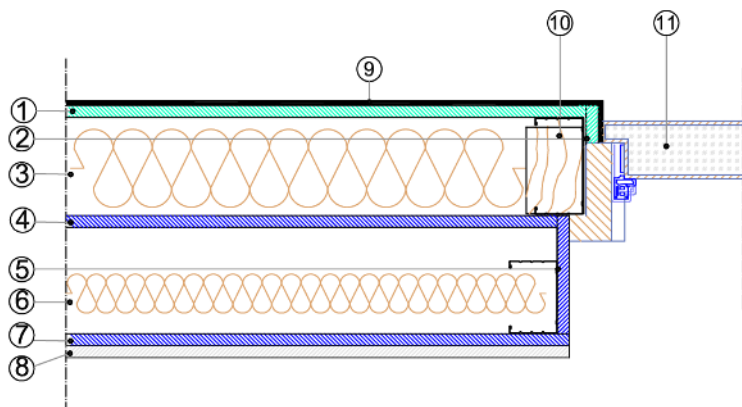
Detail. 1 SECTION



Detail. 2 DETAIL WITH STEEL COLUMN

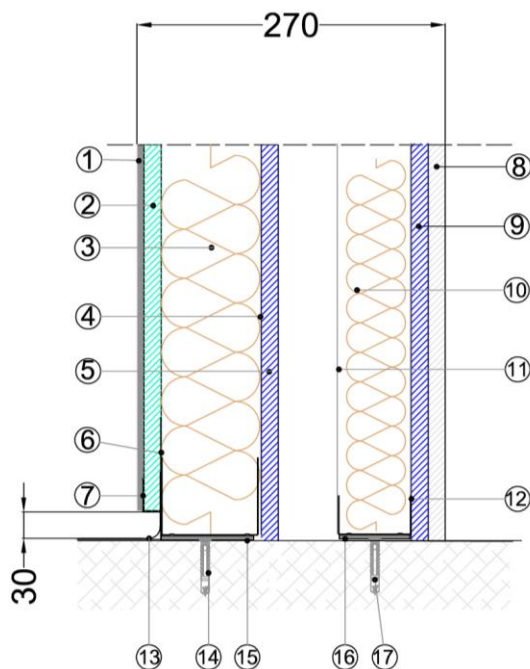
1. FIBRANGyps NEXT BOARD
2. FIBRANgeo B-001
3. FIBRANprofiles MONTANTE 100
4. FIBRANGyps SUPER 13
5. FIBRANprofiles MONTANTE 75
6. FIBRANgeo B-570
7. FIBRANGyps SUPER 13
8. FIBRANGyps V 13
9. FIBRANgeo B-001 th. 30 mm
10. FIBRANGyps NEXT COAT

External partition FIBRAN EW 270/100+75P mw Construction details



1. FIBRANgyps NEXT BOARD
2. FIBRANgeo B-001
3. FIBRANprofiles MONTANTE 100
4. FIBRANgyps SUPER 13
5. FIBRANprofiles MONTANTE 75
6. FIBRANgeo B-570
7. FIBRANgyps SUPER 13
8. FIBRANgyps V 13
9. FIBRANgyps NEXT COAT
10. Wooden counter frame
11. Window/door

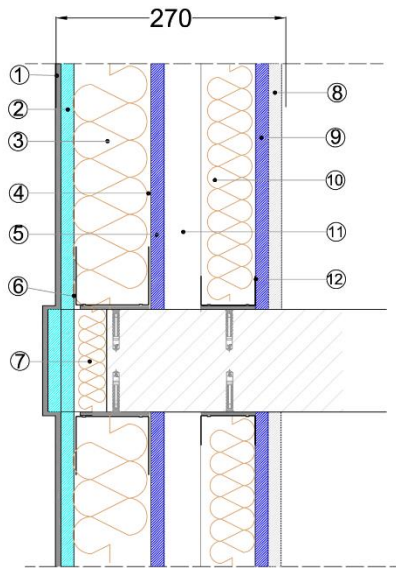
Detail. 3 **DETAILS WITH WINDOW OR DOOR**



1. FIBRANgyps NEXT BOARD
2. FIBRANgyps NEXT COAT
3. FIBRANgeo B-001
4. FIBRANprofiles MONTANTE 100
5. FIBRANgyps SUPER 13
6. FIBRANprofiles GUIDA 100
7. FIBRANgyps NEXT BASE PROFILE
8. FIBRANgyps V 13
9. FIBRANgyps SUPER 13
10. FIBRANgeo B-570
11. FIBRANprofiles MONTANTE 75
12. FIBRANprofiles GUIDA 75
13. Waterproofing
14. Anchor
15/16. Adhesive tape th. 3 mm
17. Anchor

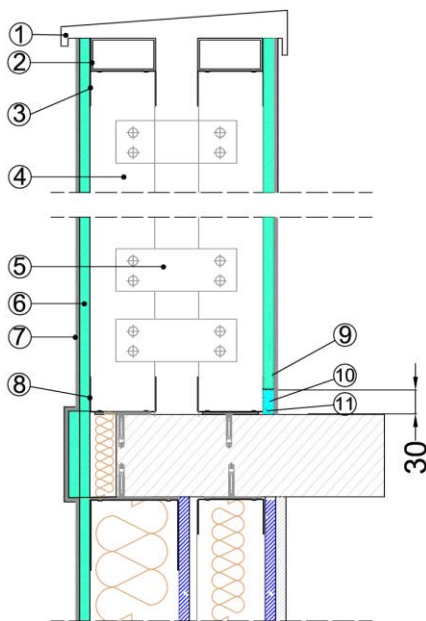
Detail. 4 **STARTER DETAIL**

External partition FIBRAN EW 270/100+75P mw Construction details



1. FIBRANgypS NEXT COAT
2. FIBRANgypS NEXT BOARD
3. FIBRANgeo B-001
4. FIBRANprofiles MONTANTE 100
5. FIBRANgypS SUPER 13
6. FIBRANprofiles GUIDA 100
7. FIBRANgeo B-001 th. 30 mm
8. FIBRANgypS V 13
9. FIBRANgypS SUPER 13
10. FIBRANgeo B-570
11. FIBRANprofiles MONTANTE 75
12. FIBRANprofiles GUIDA 75

Detail. 5 **EXPANSION JOINT**



1. Flashing
2. Closing profile
3. FIBRANprofiles GUIDA 75
4. FIBRANprofiles MONTANTE 75
5. Steel plate th. 1 mm
6. FIBRANgypS NEXT BOARD
7. FIBRANgypS NEXT COAT
8. FIBRANprofiles GUIDA 75
9. FIBRANgypS NEXT BASE PROFILE
10. FIBRANxps
11. Waterproofing

Detail. 6 **DETAIL WITH ROOF**

External partition FIBRAN EW 270/100+75P mw

Quantities of material

Indicative quantities for square meter of partition (dimensions 3x4 m) – 5% waste

		quantity/m ²
Description	UM	
FIBRANgyeps NEXT BOARD plasterboard	m ²	1,05
FIBRANgyeps SUPER plasterboard	m ²	2,1
FIBRANprofiles MONTANTE 100 stud	m	1,95
FIBRANprofiles GUIDE 100 channel	m	0,7
FIBRANprofiles MONTANTE 75 stud	m	1
FIBRANprofiles GUIDE 75 channel	m	0,7
Joint filler FIBRANgyeps JF	kg	0,35
Joint filler FIBRANgyeps NEXT COAT	kg	8,1
FIBRANgyeps TAPE fiber-glass tape	m	1,7
FIBRANgyeps NEXT SCREW	pz	20
FIBRANgyeps SCREW 25	pz	20
FIBRANgyeps SCREW SUPER 23	pz	20
FIBRANgyeps SCREW SUPER 38	pz	25
Reinforcing mesh FIBRANgyeps NEXT MESH	m	1,05
Stonewool panel FIBRANgeo B- 570	m ²	1,05
Stonewool panel FIBRANgeo B- 001	m ²	1,05